

APPENDIX A
(Clean Copy Of Amended Claims)

28. (New) A method for time-divisionally outputting a plurality of voice signals, comprising the steps of:

generating the voice signals, wherein the voice signals are digital signals;

transmitting the voice signals through a plurality of channels, wherein each of the voice signals corresponds to one of the channels;

time-divisionally sampling the voice signals according to a period channel selecting signal to generate a multi-channel sampled signal;

modulating the multi-channel sampled signal to generate an output voice signal; and
outputting the output voice signal.

31. (New) The method as claimed in claim 28, wherein the period of the channel selecting signal corresponds to the number of the channels.

30. (New) The method as claimed in claim 28, wherein the voice signals are eight-bit digital signals.

31. (New) The method as claimed in claim 28, wherein the multi-channel sampled signal modulating step further comprises:

adjusting the magnitude of the multi-channel sampled signal;

converting the multi-channel sampled signal to an output voice signal, wherein the output voice signal is an analog signal; and

amplifying the magnitude of the output voice signal.

32. (New) The method as claimed in claim 28, wherein each of the voice signals is sampled at least once per sampling cycle.

33. (New) An apparatus for time-divisionally outputting a plurality of voice signals comprising:

a plurality of voice data generators for generating and transmitting the voice signals, wherein each of the voice signal generators includes at least a channel and each of the voice signals is transmitted through the corresponding channel;

a channel selector coupled to the voice data generators for time-divisionally sampling the voice signals according to a periodic channel selecting signal to generate a multi-channel sampled signal;

a voice generator coupled to the channel selector for modulating the multi-channel sampled signal to generate an output voice signal; and

a speaker coupled to the voice generator for outputting the output voice signal.

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34.(New) The apparatus as claimed in claim 33, wherein the period of the channel selecting signal corresponds to the number of the channels.

35.(New) The apparatus as claimed in claim 33, wherein the voice signals are eight-bit digital signals.

36.(New) The apparatus as claimed in claim 33, wherein the output voice signal is generated through adjusting the magnitudes of the multi-channel sampled signals and converting the multi-channel sampled signal to the output voice signal, wherein the output voice signal is an analog signal.

37. (New) The apparatus as claimed in claim 36, wherein the voice generator is a PWM (pulse width modulation) modulator.

38.(New) The apparatus as claimed in claim 37, wherein the most significant bit (MSB) of the multi-channel sampled signal is transmitted to the voice generator through a first pathway, and the remaining bits of the multi-channel sampled signal are transmitted to the voice generator through a second pathway.

39.(New) The apparatus as claimed in claim 38, wherein the voice generator further includes a high-speed counter and a switch.

40.(New) The apparatus as claimed in claim 39, wherein the switch is controlled according to the most significant bit of the multi-channel sampled signal.

41. (New) The apparatus as claimed in claim 36, wherein the voice generator is a digital-to-analog converter.

42.(New) The apparatus as claimed in claim 33, wherein the voice generator further includes a power amplifier for amplifying the magnitude of the output voice signal.

43.(New) The apparatus as claimed in claim 33, wherein each of the voice signals is sampled at least once per sampling cycle.
